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AUTHORS: Blinowski, Andrzej and Szysko, Engeniusz
TITLE: Improved technology of extracting doped single
crystals of germanium on a pilot-plant scale
PERIODICAL: Przegląd Elektroniki, no. 8, 1962, 451-454

TEXT: The purpose of this work was to increase the yield and improve the parameters of crystals obtained by the Czochralski method. The stretching should be stopped at a point corresponding to the lower tolerance limit of conductivity. The rest of the charge in the crucible is left for the next stretching operation after addition of the next portion of the charge together with the impurity. In the case of germanium doped with

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Improved technology....

antimony this method increases the yield from 25 to 60%. Multiple replenishment of the charge and impurity does not effect the life time of impurity carriers, dislocation density, or spontaneous crystallization in the course of stretching. The life time of impurity carriers varied between 50 to 200 microseconds while the dislocation density varied between 3×10^3 to $1.2 \times 10^{-4} \text{ cm}^{-2}$. In order to obtain low dislocation density crystals the seeds were cut in the [111] direction from single crystals with very low conductivity and subsequently annealed at 900°C in an atmosphere of hydrogen for 4 to 8 hours. The results were not reproducible. Low dislocation-density material was obtained by the so called "lengthening" method which consists of pulling crystals of a small diameter, equal to that of the seed. The density of dislocations is increased by a large diameter of the single crystal,

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67-92 Spectrophotometric determination of boron

owing to its high absorption of boron. In order to determine its concn. in uranyl nitrate and hydrogen peroxide at the level of 0.1 to 0.5 p.p.m., a simple and rapid procedure, with carmine as reagent, was devised. *Procedure*—In a quartz distillation apparatus boil the uranyl nitrate sample (4 g) with methanol (30 ml) that has been previously freed of B by being distilled in the presence of mannitol and NaOH. Collect the distillate in a receiver containing 1% NaOH soln. (5 ml) and evaporate to dryness. To the residue add water (1 ml), conc. HCl (one drop) and conc. H_2SO_4 (5 ml), stir with a quartz rod to dissolve the residue, add 5 ml of carmine soln. (0.05% in conc. H_2SO_4), mix, set aside for 1-5 hr. and measure the extinction at 620 m μ . The best results were obtained in the range 0.5 to 5 μ g of B. The errors were $\pm 5\%$ for hydrogen peroxide and $\pm 10\%$ for uranyl nitrate in the range 0.1 to 0.2 p.p.m. of B.

K. F. HOREK

SZYSZKO, H.; NOWICKA-JANKOWSKA

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(MESOTHELIOMA)

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Tables 2

Bolen's test was carried out in 102 confirmed cancer cases and in 337 non-cancer cases. In the first group there were 37% false negatives, while 23.7% false positives were seen in the 2nd group. In 36 women during the last months of pregnancy, or shortly after delivery, 27.8% false positives were found. A parallelism with the blood sedimentation-rate could not be observed. Bolen's test is of very limited diagnostic value.

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POLAND

Tadeusz FALIOWDA, First Surgical Clinic of Silesian College of Medicine
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